

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	139	101/230.ccls. AND (suction\$4 cup\$4 vacuum\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/20 14:34
L5	45	399/401.ccls. AND (suction\$4 cup\$ vacuum\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/20 14:29
L4	936	399/401.ccls.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/20 14:28
S185	1	("4189136").PN.	USPAT; USOCR	OR	OFF	2008/05/20 10:06
S184	38	("3734015"   "3741643"   "4165689"   "4186662"   "4202268"   "4204471"   "4204472"   "4375326"   "4378734"   "4428667"   "4431303"   "4568169"   "4607940"   "4621576"   "4639126"   "4684238"   "4721041"   "4723489"   "4806079"   "4814822"   "4821643"   "4884794"   "4949949"   "4967660"   "4974027"   "5003355"   "5020788"   "5110159"   "5170211"   "5439029"   "5552875"   "5710964"   "5772343").PN. OR ("6438352"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 09:57
S183	11	S182 AND (radial\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/20 09:51

S182	44	(US-20040108650-\$ or US-20030196563-\$ or US-20040113349-\$).did. or (US-4881934-\$ or US-5454312-\$ or US-5186107-\$ or US-4790244-\$ or US-4127265-\$ or US-4024814-\$ or US-5535997-\$ or US-4606537-\$ or US-4958824-\$ or US-4703925-\$ or US-4228993-\$ or US-3964953-\$ or US-6168148-\$ or US-6739588-\$ or US-2231339-\$ or US-6880790-\$ or US-4378734-\$ or US-4437657-\$ or US-5232213-\$ or US-5226640-\$ or US-5087025-\$ or US-4589649-\$ or US-5553841-\$ or US-4728092-\$ or US-4714242-\$ or US-3718328-\$).did. or (US-5447300-\$ or US-3960276-\$ or US-4459013-\$ or US-4118024-\$ or US-6438352-\$ or US-5758204-\$ or US-4453841-\$ or US-3869202-\$ or US-4770404-\$ or US-4568075-\$ or US-4362105-\$).did. or (US-1715360-\$ or US-3127168-\$).did. or (JP-04041342-\$ or JP-62215441-\$).did.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/20 09:50
S181	48	("3096088"   "3430946").PN. OR ("4024814").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/20 09:35
S180	2	("2231339").PN.	USPAT; USOCR	OR	OFF	2008/05/20 09:09
S179	1	("5393151").PN.	USPAT; USOCR	OR	OFF	2008/05/20 08:36
S178	12	("271"/\$.ccls. "399"/\$.ccls.) AND ((cup\$4) WITH (lift\$4 remov \$4) WITH drum\$4) NOT S176	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:33
S177	12	("271"/\$.ccls. "399"/\$.ccls.) AND ((cup\$4) WITH (lift\$4 remov \$4) WITH drum\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:33
S176	11	("271"/\$.ccls. "399"/\$.ccls.) AND ((cup\$4) WITH off WITH drum\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:27
S175	20	("271"/\$.ccls. "399"/\$.ccls.) AND ((suck\$4 vacuum\$4 suction \$4) ADJ5 off ADJ5 drum\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:26
S174	193	("271"/\$.ccls. "399"/\$.ccls.) AND ((suck\$4 vacuum\$4 suction \$4) WITH off WITH drum\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:25

S173	43665	"271"/\$.ccls. "399"/\$.ccls. AND ((suck\$4 vacuum\$4 suction\$4) WITH off WITH drum\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:25
S172	32	271/291,65;399/306,309,364.ccls. AND (suck\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/20 08:22
S171	390	S162 NOT (S167 S168 S170)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 11:52
S170	66	S165 NOT (S167 S168) NOT (negativ\$4 NEAR3 polar\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 11:44
S169	129	S165 NOT (S167 S168)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 11:43
S168	184	271/291,65;399/306,309,364.ccls. AND (vacuum\$4 suction\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:32
S167	10	271/291,65;399/306,309,364.ccls. AND (cup\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:24
S166	143	271/291,65;399/306,309,364.ccls. AND (vacuum\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:23
S165	315	271/291,65;399/306,309,364.ccls. AND (vacuum\$4 cup\$4 suction\$4 negativ\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:23
S164	186	271/291,65;399/306,309,364.ccls. AND (vacuum\$4 cup\$4 suction\$4)	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:23
S163	942	271/291,65;399/306,309,364.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:21

S162	490	271/291,65.ccls.	US-PGPUB; USPAT; JPO	OR	OFF	2008/05/19 10:18
S161	74	("271"/\$.ccls. "101"/\$.ccls.) AND (drum\$4 SAME cup\$4 SAME belt\$4) NOT (S160 S159 S158 S157 S156 S153)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 13:22
S160	11	101/232.ccls. AND (drum\$4 SAME cup\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 13:09
S159	37	271/276,186,194,196,314,94,95,96,306,307.ccls. AND (drum\$4 SAME cup\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 12:57
S158	20	271/276,186,194,196,314,94,95,96,306,307.ccls. AND (drum\$4 WITH cup\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 12:57
S157	14	271/276,186.ccls. AND (drum\$4 SAME cup\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 12:56
S156	5	271/276,186.ccls. AND (drum\$4 WITH cup\$4)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 12:56
S155	1508	271/276,186.ccls.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 12:44
S154	1	271/276.ccls. AND 271/186.ccls.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 12:43

S153	84	271/276,194,196,314,186,94,95,96,306,307.ccls. AND @pd>="20061107"	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2008/05/01 11:54
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